

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/03591

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01J8/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 658 538 A (BEHLING UWE ET AL) 19 August 1997 (1997-08-19) abstract column 1, line 50 -column 2, line 40; figure 1 ---	1-11
X	US 3 212 862 A (AXEL CHRISTENSEN) 19 October 1965 (1965-10-19) column 2, line 40 -column 3, line 42; figure 1 ---	1-11
X	US 3 424 553 A (SIPKES HENDRIK ET AL) 28 January 1969 (1969-01-28) column 3, line 28 - line 76; figure 1 --- -/--	1-11

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the International filing date but later than the priority date claimed

T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

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Date of the actual completion of the International search

15 May 2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	GB 797 574 A (OXY CATALYST INC) 2 July 1958 (1958-07-02) page 5, line 4 - line 35; figure 3 ----	1-11
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Y	US 6 146 606 A (ATOBE HITOSHI ET AL) 14 November 2000 (2000-11-14) abstract column 9, line 15 - line 38; figure 1 column 10, line 32 - line 48; figure 6 ----	1-11
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Y	WO 01 91894 A (LOU REN ;LOU SHOULIN (CN)) 6 December 2001 (2001-12-06) abstract page 1; figure 6 ----	1-11
Y	DE 14 26 731 A (UHDE GMBH FRIEDRICH) 2 April 1970 (1970-04-02) page 3; figure 1 -----	1-11

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Information on patent family members

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